

Fiber optic patch cord lc green connector



Overview

Laser optimized multimode fiber (LOMMF) with 1.25mm, small form factor (sff), ceramic ferrule LC fiber cable connectors.

Key Takeaways

A green LC-LC fiber optic patch cord is typically a multimode duplex cable with LC connectors, designed for high-speed, short-distance optical connections in data centers and LANs.

A fiber optic patch cord is a short, flexible fiber cable with connectors on both ends, used to connect devices such as switches, servers, and optical distribution frames, transmitting optical signals efficiently between them. The LC connector is a small form factor (SFF) connector with a 1.25mm ceramic ferrule, widely used in high-density installations due to its compact size and push-pull mechanism.

Green Jacket Significance

The green jacket typically indicates OM4 multimode fiber, optimized for laser transmission and high-bandwidth applications, although some OM1 multimode fibers also use green jackets. OM4 fibers support speeds up to 100Gb/s over distances up to 150 meters and are optimized for 850nm VCSELs. OM1 fibers, by contrast, are lower bandwidth (62.5/125 μ m) and suitable for 1Gb/s connections over shorter distances.

Key Specifications

- Fiber Type: Multimode (OM4 or OM1)

- Core/Cladding: 50/125 μm (OM4) or 62.5/125 μm (OM1)
- Connector Type: LC Duplex, 1.25mm ceramic ferrule
- Jacket: LSZH (Low Smoke Zero Halogen) or OFNR riser rated, 2.0mm outer diameter
- Length Options: Commonly 2m, 3m, or custom lengths
- Bandwidth: OM4: 3500–4700 MHz·km; OM1: lower bandwidth suitable for 1Gb/s
- Applications: Data centers, LANs, enterprise networks, high-speed Ethernet, and short-distance optical interconnects

Practical Considerations

- Duplex Configuration: Two fibers in a single cable for bidirectional communication
- Polish Type: Typically UPC (Ultra Physical Contact) for low insertion loss
- Durability: Zip-cord reinforced for flexibility and mechanical protection
- Installation Tips: Maintain proper bend radius, keep connectors clean, and ensure compatibility with existing LC ports

Summary

A green LC-LC fiber patch cord is a high-performance multimode cable ideal for short-distance, high-speed optical connections. OM4 green cords are preferred for 10G–100G Ethernet in modern data centers, while OM1 green cords are suitable for legacy 1G networks. Proper selection ensures low signal loss, high bandwidth, and reliable network performance .

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